

ZHERDEVA, LIG

USSR/Chemical Technology - Chemical Products and Their I-13 Application, Treatment of Natural Gases and Petroleum. Motor Fuels. Lubricants.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12974

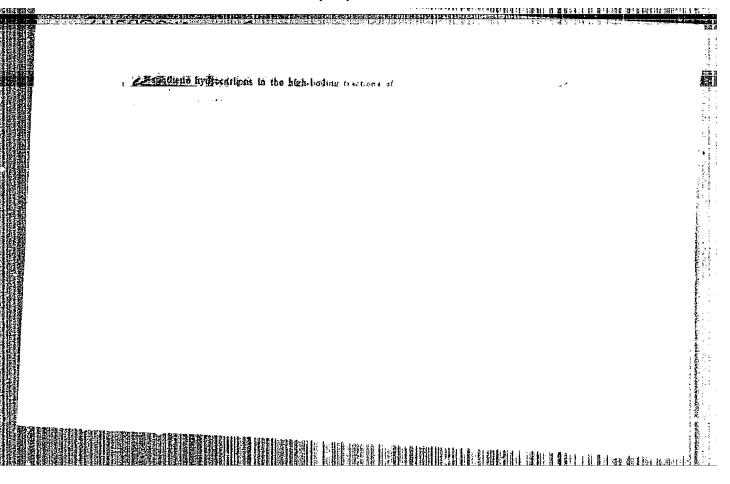
Author : Zherdeva L.C., Karaseva A.A., Voznesenskaya Ye.V. Title : Oils from Eastern Sulfur-Containing Petroleum

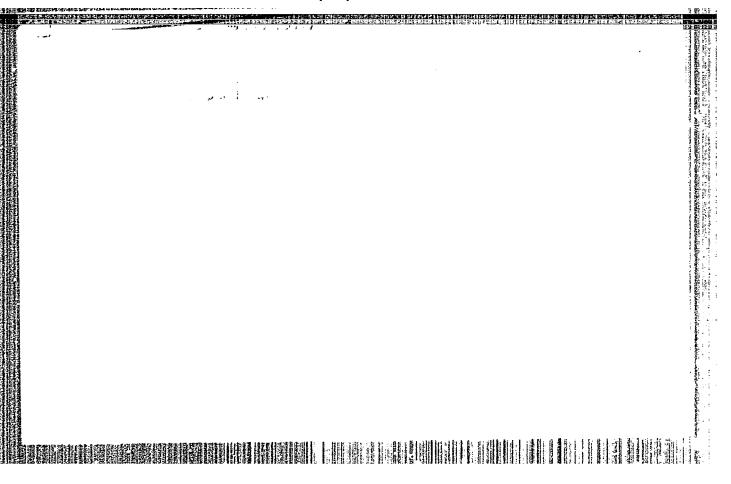
: Khimiya i tekhnologiya topliva, 1956, No 1, 50-57 Orig Pub

Abstract : Detailed investigations of Tuymazinskaya, Stavropol'skaya, Bavlinskaya and Romashkinskaya petroleum of Devonian deposits, as raw materials for the production of oils, as a result of which it was found that as concerns yields and quality of the oils the Tuymazinskaya petroleum is the best. The principal component part (50-60% and higher) of the oil fractions of sulfur-containing petroleum is a complex mixture of arountic hydrocarbons and S-compounds of different structure and properties. As a result of

deasphaltization with propone (of not less than 95% - 258 - purity), Card 1/2

CIA-RDP86-00513R002064720001-9" **APPROVED FOR RELEASE: 03/15/2001**





TO THE SECOND PROPERTY OF THE PROPERTY OF THE

65-12-3/9 Sidlyaronok, F.G., Zherdeva, L.G. and Potanina, V.A. AUTHOR: TITLE: On the Problem of Structural-group Composition of Oils (K voprosu opredeleniya strukturno-gruppovogo sostava masel) PERIODICAL: Khimiya i Tekhnologiya Topliva i Masel, 1957, No.12, pp. 22 - 31 (USSR) A comparison of results of determinations of structural-ABSTRACT: group composition of finished oils and fractions of aromatic compounds, obtained by adsorption separation of extracts from selective refining of raw oils is described. Calculations of the group composition were carried out by the following methods: 1) catalytic hydrogenation with the calculations according to Vlugter and Waterman; 2) catalytic hydrogenation with the calculations according to the formulae Van Nes and Van Westen (direct method); 3) without hydrogenation using the Vlug'ter, Waterman and Van Weston method; 4) the n-d-M method, and 5) Dinsli and Carlton method. As a basis for comparison with

other methods, the results obtained by the Vlug'ter, Waterman and Van Weston method with catalytic hydrogenation were taken. Data on the physico-chemical properties of oils before and after hydrogenation (Table 1); group compositions determined by the above methods (Table 2); limiting and mean deviations of the values for group compositions determined by the above Cardl/3

65-12-3/9

On the Problem of Structural-group Composition of Oils.

methods (Table 3); physico-chemical properties of the initial and hydrogenated polycyclic aromatic fractions, their group compositions and deviations in the compositions determined by the above methods (Tables 4, 5 and 6, respectively); the comparison of group composition of the fractions determined by the density and M-nD methods (Table 7). On the basis of the

results obtained, the following conclusions are drawn:

1) Methods of calculating group composition without hydrogenation in a number of cases give considerable deviations in comparison with the data obtained with hydrogenation; 2) on calculating group composition of finished oils, the following methods can be applied with equally good results: catalytic hydrogenation according to Vlug'ter, Waterman and Van Weston, the direct method of Van Nes and Van Weston, the method of Vlug'ter and Waterman without hydrogenation and the n-d-M method; 3) data on the determination of group composition of polycyclic aromatic compounds obtained without hydrogenation deviate considerably from the results obtained with the hydrogenation. The deviation increases with increasing refractive index of the fraction investigated; 4) the Dinsli and Carlton method gives more accurate contents of aromatic rings than

Uard2/3

65-12-3/9

On the Problem of Structural-group Composition of Oils.

other methods (without hydrogenation). The determination of the content of other structural groups - this method gives considerable deviations. There are 7 tables and 18 references, 8 of which are Slavic.

ASSOCIATION: VNII NP

AVAILABLE: Librar

Library of Congress

Card 3/3

The state of the

ZHERDEVA, L. G., and SIDLYARONOK, F. G.

"The Structure and Properties of Aromatic Compounds Contained in the High Boiling Petroleum Fractions." p. 54.

Composition and Properties of the High Molecular Weight Fraction of Petroleum; Collection of Papers on the Composition and Properties of Crudes and Petroleum Products, Mosmow, Izd-vo AN SSSR, 1958. 370pp. (In-ta nefti) 2nd Collection of papers publ. by AU Conference, Jan 56, Noscow.

This article considers the structure and properties of aromatic compounds from two types of eastern petroleum: Tuymazy petroleum paraffinic, sulfur containing) and Emba petroleum (low paraffin, low fulfur content). It was determined that high molecular weight aromatic compounds separated from sulfur-containing petroleum consist of a mixture of polycyclic (3 - 7 cycles in an average molecule), mostly condensed aromatic hydrocarbons, and sulfur compounds similar in their properties to aromatic hydrocarbons. The calculation of the structural group composition from physicochemical constants without hydrogenation shows considerable disagreement with the composition determined on the basis of hydrogenation, and therefore cannot be used for fractions of polycyclic high molecular weight aromatic compounds.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002064720001-9"

1

ZHERDEVA, L. G., KROL', B. B., OSTRUUMOVA, Ye. A.

"Composition of CILs by Means of Adsorptive Separation," p. 81
Composition and Properties of the High Molecular Weight Praction of Petroleum;
Collection of Papers on the Composition and Properties of Crudes and Petroleum
Products, Moscow, Izd-vo AN SSSR, 1958, 370pp (in-to nefti)

E 2nd Collection of papers bubl. by AU Conf. Jan 56, Moscow.

Composition of olis by means of Adsor

This paper gives a description of the adsorptive separation method as used in the oil chemistry laboratory of the VNIINP to determine the chemical composition of crudes and oils. It is designed for the determination of group composition of dls, oil distillates, residues and extracts. Application of this method to the analysis of crudes gives an estimate of the yield and quality of dils produced.

"Study of Solid Hydrocarbons From Sulfur-Containing Eastern Crudes" p. 218

BENTONING BENCHMEN BENTONING BENTONING BENTONING BENTONING IN HER TIGHTE IN A CHARGE FOR FRANCE FOR

Composition and Properties of the High Molecular Weight Fraction of Petroleum; Collection of Papers, Moscow, Izd-vo AN SSSR, 1958. 370pp. (Inta nefti)

2nd Collection of papers publ. by AU Conference, Jan 56, Moscow.

It was determined that highly refined solid hydrocarbons obtained from a deasphalted Tuymazy crude concentrate (b.p. $\searrow 350^{\circ}$) belong to the methane series and are mainly normal paraffins (C₂₃ to C₃₆). Solid hydrocarbons with m.p. $\searrow 65^{\circ}$ contain about 35 percent isomeric methane hydrocarbons. There are 12 figures, 6 tables, and 19 references of which 9 are Soviet and 10 English.

"Physicochemical Study of Asphaltic-Resinous Substances From Eastern Crudes" p. 266

Composition and Properties of the High Molecular Weight Fraction of Petrolsum; Collection of Papers, Moscow, Izd-vo AN SSSR, 1958. 370pp. (Lute nefti) 2nd Collection of papers publ. by AU Conference, Jan 56, Essew.

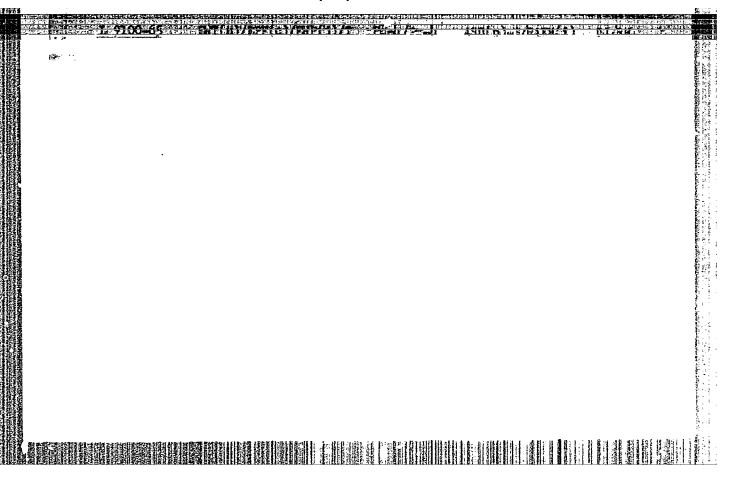
Propane treatment yields products with a high hydrogen content and high molecular weight. Phenol treatment gives products of lower molecular weight, high density, and high S, N, and O content. Resins from Tuymazy and Emba crudes are composed of polycylic compounds containing S, N, and O, with average molecules of 4 - 6 cycles. The average molecule contains not only aromatic cycles, but also considerable amounts of naphthenic (sometimes up to 50%) and paraffinic (40 ± 50%) cycles, basically short. There are 7 tables, 3 figures, and 13 references of which 12 are Soviet and 1 German.

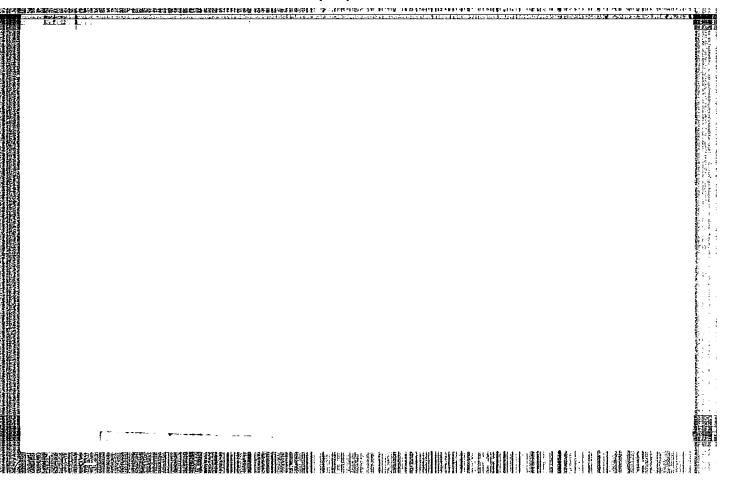
ZHERDEVA, L. G., KARASEVA, A. A., VOZNESENSKAYA, E. V., ALTSHULER, A. E., KROL, B.B. CROCHKO, D. I., AKIMOV, V. S., MIKHAYLOV, B. B., AGAFONOV, A. V., DRUZHININA, A. V.,

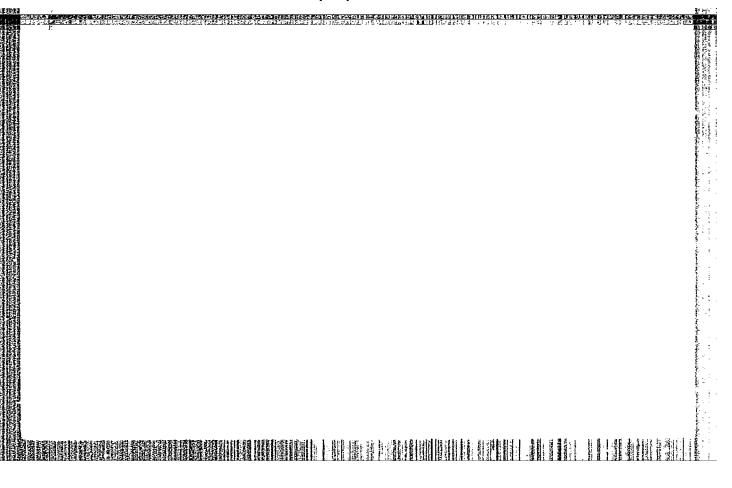
*Production of Lubricating Oils and Paraffin from Sulfurous Oils in the USSR."

ANGENE SEMENGERENG SESSESTEMBEREN IN DER SESTEMBER IN DER SESSESTEMBER IN DER SESTEMBER IN DER SESTEMBER

Report submitted at the Fifth World Petroleum Congress, 30 May -5 June 1959. New York City.







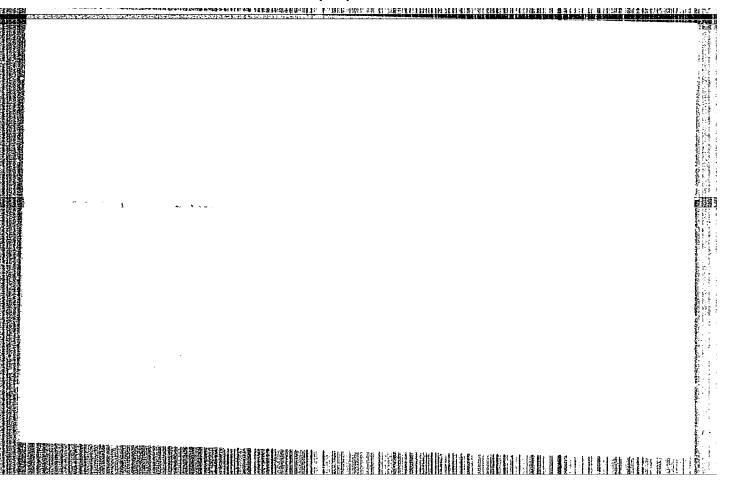
| | Composition of solid paraffins obtained from sulfurous petroleum. Khim. i tekh. topl. i masel 10 no.3:26-29 Mr '65. (MIRA 18:11) |
|--|--|
| | 1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskisstvennogo zhidkogo topliva. |
| | |
| | 생기들은 그 사고를 살았다. 그들은 그리고 있는 그리고 있는 것이 되는 것 같아 되었다. 불통하는 사용하는 사람들은 사람들은 사람들은 하는 것이 되었다. |
| | <u> </u> |
| | . 즐겁니다. 그는 그들이 하고 있다면 즐겁다. 그는 그는 그는 사람이 그는 그는 그를 보는 것이다. 그는 사람들은 그들이 것을 했다. 그는 그는 그는 그는 그는 그는 그는 그를 보는 것이다. 그는 그는 그를 보고 있다. |
| | 사용하다 이 경영에 불어가는 바람들이 아니라 하는데 하는데 하는데 하는데 하는데 하는데 있다. 기를 통해 하는 사용하다 중에 가를 하는데 |
| | 고리, 유럽, 그 이 대형이 약에 불면 생각하고 말하고 있다는데 그 그 그 그 그 그는데 그 그 그 그 그 그 그 그 그 그 그 그 |
| | |
| | |
| 리 후에 보고 있다. 그 보고 있다. 그 가는 사람들은 하는 것 같습니다. | · 프로젝트 아무슨 사람들이 살려왔다. 그는 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 |
| | 그렇게 보고 하는 마양에 동안되었다. 그 이 동아를 보고 하는 것이 되었다. 그리고 있는 물을 하고 있는데 바람들은 물을 하는 것 같습니다. 그 사람들은 말을 보고 있다. 그 것 같습니다. |
| | |
| | 그는 사람들이 아니라 사람들이 가장 하는 것이 되었다. 그 사람들이 사람들이 가장 되었다. |
| | <u>[이용의 발생으로 하다면도 나타다면 함께 하다고 보고 보고 있는 모모는 모이모고 문</u> 란된 전달 |

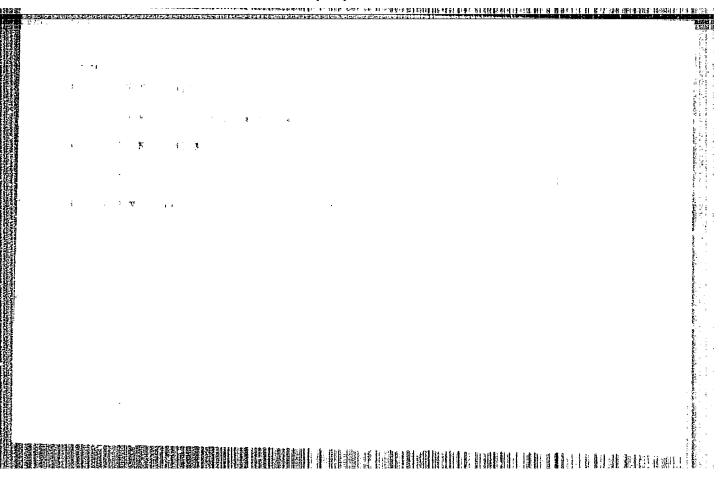
SEREBRYAKOVA, Z.G.; KANTER, D.TS.; ZABRAN, E.S.; ZHERDEVA, L.G.; POTANINA, V.A.

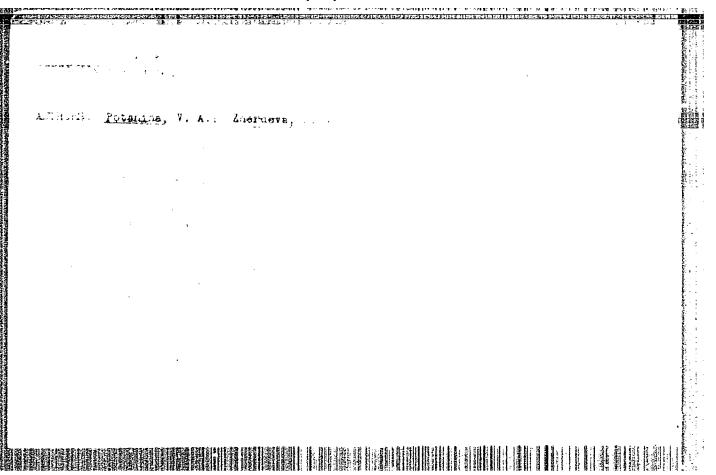
Methods for testing mineral oils used in the manufacture of acetate and viscose cord fibers. Khim. volok. no.1r62-64. '65.

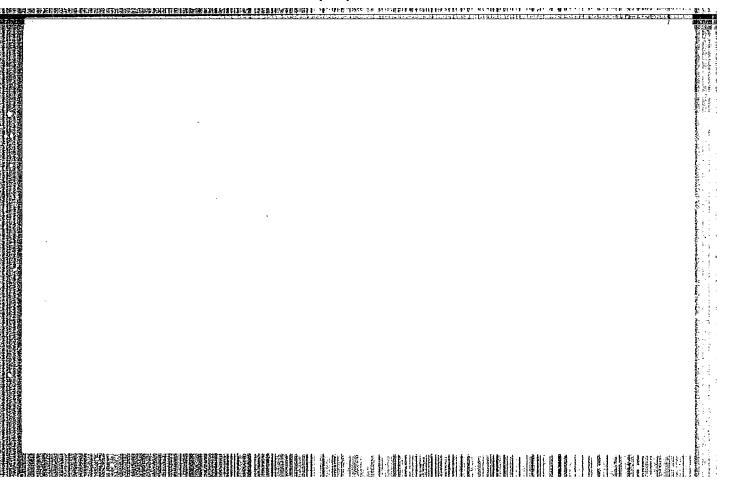
(HIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Serebryakova, Kanter, Zabran). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva (for Zherdeva, Potanina).









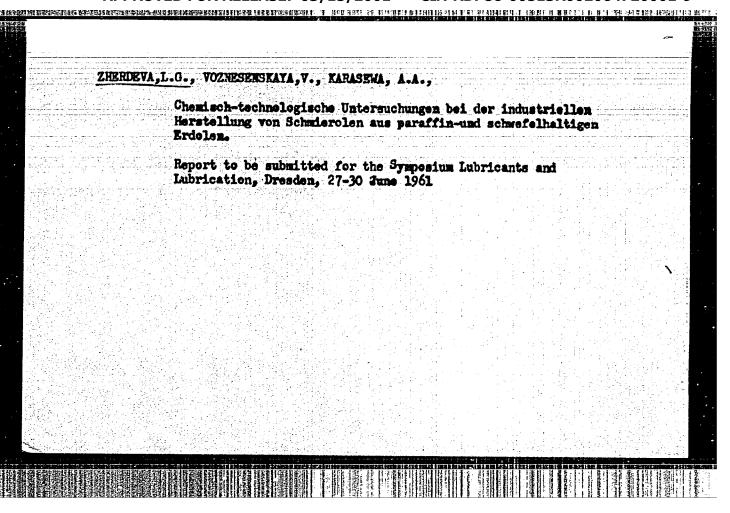
SIDLYARONOK, P.G.; ZHERDEVA, L.G.; ROZHDESTVENSKAYA, A.A.; DETUSHEVA, E.P.; SLAEKOVSKAYA, O.A.

Using the extracts of phenol purification as plasticizer fillers for synthetic rubbers. Trudy VNII NP no. 9:52-67 '63. (MIRA 17:6)

CHESNOKOV, A.A.; ZHERDEVA, L.Q.; Prinimali uchastiyo: KOZHEVNIKOV, S.A.;
PYATILETOVA, N.I.; POPOVA, L.D.; LEVINA, L.P.

Effect of resins on the process of dewaxing of residual
raffinates. Khim. i tekh. topl. i masol 8 no.7(23-30 Jl '63.
(MIRA 16:7)

1. KNII NP i Vsesoyuznyy nauchno-issleoduvate1/skiy institut
po pererabotke nefti i gazov i polucheniyu iskusstvennogo
zhidkogo topliva.
(Petrolsum—Refining) (Paraffin wax)



的现在分词,我们是一个一个人,他们是一个人的人,他们是一个人的人,他们是一个人的人的人,他们是一个人的人的人,他们也没有一个人的人,他们也没有一个人的人,我们也不

CHERNOZHUKOV, N.I., doktor tekhn. nauk, prof., nauchnyy red.;

ZHERDEVA, L.G., red.; IVANOVA, L.V., red.; ISAGULYANTS, V.I.,

red.; ISMAILOV, R.G., red.; KREYN, S.E., red.; KULIYEV, A.M.,

red.; MAMEDOV, M.A., red.; PAPOK, K.K., red.; SPERTOR, Sh.Sh.,

red.; FEDOTOVA, A.F., red.; SHKHIYAN, S.Kh., red.; LEVINA,

Ye.S., ved. red.; POLOSINA, A.S., tekhn. red.

[Improvement of the quality and the production of lubricating oils] Uluchshenie kachestva i sovershenstvovanie proizvodstva smazochnykh masel; trudy. Moskva, Gostoptekhizdat, 1963. 255 p. (MIRA 16:6)

1. Vsesoyuznoye soveshchaniye po uluchsheniyu kachestva bakinskikh smazochnykh masel i usovershenstvovaniyu tekhnologii ikh proizvodstva, Baku, 1961.

(Lubrication and lubricants)

| | S/081/62/000/004/071/087 B138/B110 | |
|---|--|----|
| AUTHORS: | Krol', B. B., Zherdeva, L. G., Rozanova, Z. I. | |
| TITLE: | The influence of natural organosulfur compounds on the stability of low viscosity oil from Tuymazy crudes | 10 |
| PERIODICAL: | Referativnyy žhurnal. Khimiya, no. 4, 1962, 483, abstract 4M191 (Sb. "Khimiya seraorgan. soyedineniy, soderzhashchikhsya v neftyakh i nefteproduktakh. v. 4". M., Gostoptekhizdat, 1961, 189-193) | 15 |
| also of the d S-compounds, a positive ef The S-compound inhibitors for carbons. When | eriments carried out in connection with a study of the low S deep refined transformer oil from Tuymazy crude, and etarred part of this oil before and after removal of the the natural S-containing organic compounds were found to have fect on the stability of the oil with regard to exidation. It is appear to play a particularly positive role as exidation of consisting of naphthenic and monocyclic aromatic hydronic the cyclicity of the aromatics contained in the oil is inhibiting effect of the S-compounds is maintained. | 20 |
| [Abstracter's Card 1/1 | note: Complete translation. | |

15.4100 1583

33586

11.9100

S/204/61/001/005/004/008 E075/E484

AUTHORS:

Zherdeva, L.G., Karzhev, V.I., Silichenko, Ye.I., Detusheva, E.P., Robozheva, Ye.V., Sidlyaronok, F.G., Lebedeva, N.M.

TITLE:

Isomerization of hydrocarbons from petroleum paraffin waxes

PERIODICAL: Neftekhimiya, v.1, no.5, 1961, 639-647

TEXT: Results are given of investigation into the isomerization of solid paraffin waxes separated from high-sulphur crudes in refineries. 98.6% of the waxes boiled between 350 and 450°C. Their melting point was 51°C, sulphur content 0.03% and oil content 2%. The waxes were typical commercial waxes with relatively high oil content. Isomerization was conducted in a laboratory flow apparatus under hydrogen pressure. Molten wax at 100°C mixed with hydrogen was fed into the reactor filled with 100 ml of catalyst. The reactor temperature ranged from 390 to 430°C. Industrial platinum catalyst was used. In some of the experiments, 3% wt benzene was added to the wax to elucidate; the influence of aromatic hydrocarbons on the processes of chain

33586 \$/204/61/001/005/004/008 E075/E484

Isomerization of hydrocarbons ...

rupture and isomerization. Table 1 gives optimum reaction conditions together with some properties of the products. presence in the products of isoparaffins is shown by the fact that a considerable lowering of their solidification point occurs after treatment with urea. Three fractions of the products were selectively dewaxed and clay-treated. Yields of the dewaxed oils varied from 82 to 75%, for the fractions boiling between 300 and 350°C, to 38% for the fractions boiling between 400 and 450°C. Solidification temperature for all dewaxed oils varied between -30 and -34°C. The wax separated during dewaxing contained about 90% urea adductable material and therefore is suitable for adding to the feedstock. Isomerization of wax of m.pt. 58 to 60°C gives large quantities of paraffins boiling between 350 to 450°C, which have a special interest for oxidation to fatty alcohols and acids. Oils solidifying below -40°C were produced by a two-step dewaxing, the second step consisting of urea treatment. The oils have relatively low viscosities (3.5 to 10.1 cs at 50°C and 2.5 to 3.4 cs at 100°C) and high viscosity indices (115 to 142). Viscositygravity constants of the oils are below 0.77, densities lower than Card 2/#

Isomerization of hydrocarbons ...

431

33586 \$/204/61/001/005/004/008 E075/E484

0.83 and refractive index n_D^{20} less than 1.4660. that the oils consist of highly isomerized paraffinic hydrocarbons. The content of aromatic hydrocarbons in the oils varies from 8 to 12%. It is thought that they are mainly homologues of naphthalene. The oils obtained in the experiments in the presence of benzene have almost no resins, whereas the other oils contain 0.5 to 0.7% resins and are somewhat darker. The aromatic hydrocarbons improve oxidation stability of the oils as measured by sludge formation and acid value after testing by method VTI. More viscous oils (SAE 10) were obtained by adding 2% Acryloid 150 and polymethacrylate "D" (obtained in VNII NP) to the oils. viscosity index is thus increased to 182-187. It is concluded that the isomerization constitutes a possible commercial process for the production of lubricating oils with high viscosity indices. There are 10 tables and 17 references: 5 Soviet-bloc and 12 non-Soviet-bloc. The four most recent references to English language publications read as follows: Ref.8: P. Schenk, A.B.H. Varvorn, H.I. Waterman, A.B.R. Weber. J. Inst. Petrol., v.42, 1956, 205; Ref.9: E.L.Breimer, H.I.Waterman, A.B.R.Weber. Card 3/8 (/

Isomerization of hydrocarbons ...

33586 5/204/61/001/005/004/008 E075/E484

J. Inst. Petrol., v.43, 1957, 407; Ref.10: Brit. Pat. J. 66027, 28 March 1955; Ref.11: I.W.Gibson, G.M.Good, G.Holzman. Industr. and Engng. Chem., v.37, no.16, 1959, 16.

ASSOCIATION:

建铁 李

Vsesoyuznyy nauchno-issledovatel skiy institut po pererabotke nefti, gaza i polucheniyu iskusstvennogo zhidkogo topliva VNII NP, g. Moskva (All Union Scientific Research Institute for Oil and Gas Refining and the Production of Synthetic Liquid Fuel VNII NP, Moscow)

SUBMITTED: July 28, 1961

Card 4/8 4

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002064720001-9"

POTANINA, V.A.; ZHERDEVA, L.G. Structure and properties of aromatic compounds in the cil fraction of sulfur-bearing crudes. Khim.i tekh.topl.i masel 5 no.5:26-31 ky '60. (NIRA 13:7) 1. Vsescousnyy nauchno-issledovatel skiy institut po pereradotke nefti i gasov i polucheniyu iskusstvennogo shidkogo topliva. (Petroleum—Refining) (Aromatic compounds)

旅行的复数经验经验的运动的数据基本结构的逻辑的逻辑的逻辑性理论的 这是自己原则的 相互一张,但是上海的一段,这一种小面形式,只是自由自己的工程,只是自由自己的工程,但是是自由自己的工程,但是是自由自己的工程的一种,不是是

SOV/81-59-16-58483

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 408 (USSR).

AUTHORS:

Zherdeva, L.G. Sidlyaronok, F.G.

TITLE:

The Structure and the Properties of Aromatic Compounds Contained in High-Boiling Petroleum Fractions

PERIODICAL: V sb.: Sostav i svoystva vysokomolekul. chasti nefti. Moscow, AN SSSR, 1958, pp 54-68

ABSTRACT:

The structure and the properties of aromatic hydrocarbons (AH) of paraffin sulfurous oil (from Tuymazy) and of low-paraffin, low-sulfur oil (from Emba) were investigated. High-molecular AH from sulfurous petroleum are a mixture of polycyclic (3 - 7 cycles in the neutralized molecule), mainly condensated AH and S-compounds with similar properties. In the neutralized molecule of aromatic fractions the content of aromatic and naphthene cycles is different.

A. Nekrasov.

Card 1/1

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 16, p 419, (USSR)

AUTHORS:

Krol', B.B., Zherdeva, L.G., Ostroumova, Ye.A.

TITLE:

The Determination of the Chemical Composition of Cils by Means

of Adsorption Separation

PERIODICAL:

V sb.: Sostav i svoystva vysokomolekul, chasti nefti. Moscow, AN SSSR, 1958, pp 81-89

ABSTRACT:

The description of a method of analytic adsorption separation on the silicagel ASK is given, with a grain size of 30-60 mesh, intended for determining the chemical group composition of oils, oil distillates, petroleum residues and extracts. The analyzed product is dissolved in heptane or a fraction of alkylate (FA) with a b. p. of 90-95°C. The descrption is carried out in the following order: FA, by a mixture of alkylate (30%) and benzene (70%) and by pure benzene; then the resins are extracted in a Soxhlet apparatus by a mixture of alcohol and benzene (35:65), Results are cited of the analysis of two distillates by the proposed method: 370-500°C from sulfurous petroleum and 375-480°C from Katangliya(low-sulfurous)petroleum. Some drawbacks of the method are mentioned, especially the presence of intermediate fractions consisting of a mixture of naphthene and aromatic hydrocarbons.

Card 1/1

B. Englin.

507/81-59-16-58555

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 417 (USSR)

AUTHORS:

Sidlyaronok, F.G., Zherdeva, L.G.

TITLE:

The Chemical Composition and the Properties of Extracts From Selective Purification of Oils

PERIODICAL:

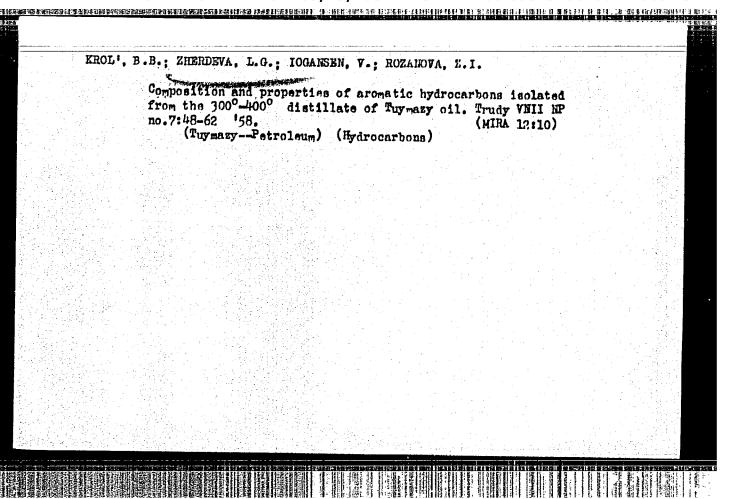
Tr. Vses. n.-i. in-t po pererabotke nefti i gaza i polucheniyu iskusstv. zhidk. topliva, 1958, Nr 7, pp 34-48

ABSTRACT:

The physical-chemical properties and the chemical group composition of extracts from selective purification (by phenol and steam solvents) of residual oil raw material from sulfurous paraffin-base petroleum, low-sulfurous Emba and Baku paraffin-base petroleum, and also of a distillate of a mixture of sulfurous petroleum were investigated. The investigation was carried out with the application of deresination, deparaffination, adsorption separation on SiO2, of molecular distillation and hydrogenation and also by spectral investigation of the narrow fractions. The dependence of the chemical composition of the extracts on the character of the raw material and the methods of purification has been established.

Card 1/1

Ye. Pokrovskaya,



SOV/81-59-16-58512

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 411 (USSR)

AUTHORS: Zherdeva, L.G., Mikhaylov, I.A., Demchenko, A.D., Cherchenko, N.V., Timo-

逐發系統建設施運動放棄發展發展運動發展發展到1864年對20世紀發展20世紀後華保持到十二萬年代中華可能的主義。對了這個的主義

TITLE: The Possibilities of Using the Continuous Process of Adsorption Separation of Petroleum Fractions

PERIODICAL: Tr. Vses. n.-i. in-t po pererabotke nefti i gaza i polucheniyu iskusstv. zhidk. topliva, 1958, Nr 7, pp 93-103

In a laboratory installation experiments were made regarding the continuous purification by an adsorbent (crumbled Al-Si catalyst) of distillate and deasphaltized residual fractions of sulfurous (Tuymazy, Romashkino, and their mixtures) and low-sulfurous (Emba, Zhirnovo, Baku) petroleum. The purification was carried out in the counter-flow system at continuous contacting of the descending adsorbent layer with the ascending raw material flow and with continuous desorption by solvents and regeneration of the adsorbent. The process can be applied to products of

various viscosity and used to obtain oils, paraffins and fuels.

Ye. Pokrovskaya.

** *...

ABSTRACT:

sov/81-59-16-58484

Translation from; Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 408 (USSR)

Zherdeva, L.Q., Sidlyaronok, F.G. AUTHORS:

The Chemical Composition and Properties of High-Boiling Fractions and Oils TITLE:

of Secondary Origin

Tr. Vses. n.-1. in-t po pererabotke nefti i gaza i polucheniyu iskusstv. PERIODICAL:

zhidk, topliva, 1958, Nr 7, pp 221-244

The comparison of physical-chemical properties of directly distilled fractions of Romashkino petroleum (b. p. 300 - 400°C and 420 - 470°C) with ABSTRACT:

fractions of catalytic cracking boiling in the intervals of 300 - 400°C; 330 - 400°C, 420 - 450°C and 450 - 500°C has shown that the fractions of catalytic cracking have considerably higher values of density, refraction coefficients, specific dispersion and iodine numbers. The chemical composition of the fractions are given. The naphthene hydrocarbons from fractions of catalytic cracking have a lower degree of cyclicity and a higher content of paraffin chains in the average molecule; at the same

time the degree of cyclicity and the concentration of aromatic rings increases and the naphthene rings and the paraffin chains in the average mo-

Card 1/2

Card

5/2001

DEFECTION OF THE PROPERTY OF T

CIA-RDP86-00513R00206472

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002064720001-9 所使我就是两边的多数就是否起诉还完全 特别多时"你5世纪的事"。"你们世后你一次的一个特,当他们中心自己的时间也多是的"军"的人员的对话,但是这个时间,可是一个 第二章

CHERDEVA, L. G

307/01-59-15-59010

Francistion from Referetivnyy shurnal, Eduatys, 1.5 . Nr 15, 2 21 (USSR)

ADMICRS: Tordeva, L.C. Gidlyarenolt, F.G., Petenina, V.A.

TIME: The Characteristic of Maphthene Hydrocarbons Contained in Matracts From Dective Publication of 0113

We. Vies. n.-i. in-t to pererabothe nefti i gama i polucheniyu islamstv. PERCOTOAL: miles toplaye. 1 50, 12-7, pp 52 - 69

The cata rie commission the characteristic of napitions hydrocarbons ABSERACT: which are contained in the rew natorial as well as in the entract and in The odd obtained at selective purification of this rest material. A total forms of remederated of various origin was investigated; residue intervial from whe petrolous and from sulfavous petrolous, distillate sators. From suffurous otrolous and also extructs and oils obtained from those forms of restantation. The negletione bydrocarbons were so serviced by reservation chromatography on militaryol at the ratios to the propertorial of (12 - 1'): 1 for extracts and (1 - 10):1 for refined natorinas and faithful in takerial. Weations with a specific dispersion (11.0) - Who structural-group

| The Onevalo Part Stocktor | relatio or is p | theng lychogabous (b | itedays, in assertion | | |
|---|---|--|---|---|--|
| composition the monthem solecular we lower viscos that acpirther pass into the | was calculated a pyrococies light have in a ity indices the no hydrocarbon. | naces they by stripling of course they be strong to be considered and they come they be striply as they be sufficiently the sufficiently the sufficient they be suffin | on house to be of the one to V. Vallen, records defined the inchest. | trak datai) trak datai) tergoeffoloata eng koroli. Tiba koma | |
| pecific refi | eaction. | e elementary compositi be determined with su | fficient accuracy | high-molecular from the values of | |
| | | | a. Ro | zenfel'a | |
| | | | | | |
| | | | | | |
| rc 2/2 | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| TARAS | SENKO, M.I., ZHERDEVA, N.T. | |
|-------|--|--|
| | Rapid gravimetric method of determining calcium lactate and calcium gluconate. Shor. nauch. rab. MFI 2:145-148 159. (MIRE 14:1) | |
| | 1. Kafedra neorganicheskoy khimii (sav dotsent M.I. Tarasenko) Moskovskogo farmatsevticheskogo instituta. (CALCIUM—ANALYSIS) | |
| | 현실 (프로그램 프로마스 프로마스 프로마스 프로마스 프로마스 트로마스 트로마스 트로마스 프로마스 트로마스 트로마스 트로마스 트로마스 트로마스 트로마스 트로마스 트 | |
| | 마음 등록 보는 사람들은 모델 하는 물로 하는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되었다. 19 등록 10 전 10 등로 10 18 등록 10 등로 10 | |
| | 네. 기준 하는 그리는 물을 잃으면 하다 하는 것이 되는 것으로 있는 것으로 되었다. 그런 그렇게 되었다. | |
| | 사이트라스 클로프를 보고 있는데 중요 그 사이트로 되어 있다. 그 그리고 있다는 하는데 그 모든 물을 되었다. 근로시험이 발표한 물로 한국에 된 것도 되는 것은 문로 그는 그는 것 같다. 그는 그리고 말로 보고 있었다. | |
| | 는 경영화의 전혀 하는 경영화를 모르는 병에 하는 것이 되고 있는 것으로 가장하게 기념을 받는다. 사용하는 전 10년 전 1년 | |
| | 고등 발하고 되었다. 그는 말이 들는 다른 그는 그는 그는 그는 그는 그는 그는 그를 가는 것이다. 그를 가는 보고 있는 그는 전환이 불로 함께 있는 것이다. 그는 것은 그는 그는 그는 것이 모르는 이 것이다. | |
| | 사용하다 이 시간 이 경험을 보고 하고 있다. 그는 이 강성이 있는 것 같아 되었다. 그 것 같아 보였다. 유통과 기가 있다. 이 아이들은 전 등에 가장 사용하는 것 같아 되었다. 그 것 같아 보다는 것 같아 보다. | |
| | 경기 기본 경기 보고 있는 경기 경기를 보고 있는 것이 되는 것이 되었다. 그런 그는 것이 되고 있는 것이 되었다. 그런 그렇게 함께 되었다. 그리고 있는 것이 되었다면 보다를 보고 있는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 그런 것이 되었다. | |
| | | |

| l. Kafedra naorganioheskoy khimii (sav dotsent M.I.Tarasenko) Moskovskogo farmatsevtioheskogo instituta. (NICKET_ANALYBIS) | |
|---|--|
| | |
| 부터 발생이 있다. 그는 그리고 있는 것도 한다면 하는 보고 말했다. 그리고 있는 것은 사람들이 되고 있는 것이 되었다. 그리고 있는 것은 사람들이 되었다. 사람들은 사람들이 보고 있는 것은 사람들이 되었다. 그런 사람들이 되었다. 그런 | |
| | |
| 상으로 하는 그의 여름이 하는 것으로 가는 것이 되었다. 그렇게 되는 것은 사람들이 되었다. 그런 | |
| 4000000000000000000000000000000000000 | |
| 발생하는 일이 함께 가르면 이렇게 들어가면 보고 있다. 그런 그는 사이를 보고 있는데 그런 그는 사이를 보고 있다. 발생하는 경우 전에 가르면 보고 있는데 그런 그는 사람들이 되었다. 그는 사이를 보고 있는데 그런 그는 사이를 보고 있다. 그는 사이를 보고 있다. 발생하는 경우는 보고 생각을 하는데 보다는 것이 되었다. 그는 사이를 보고 있는데 그는 사이를 보고 있다. 그는 사이를 보고 있다. 그는 사이를 보고 있다. | |

KIREYEVA, K.I.; KHLYSTOVA, Z.K.; SHARAPOVA, T.A.; POLITAVSKAYA, H.K.; KOLESHIKOVA, Z.K.; MARTEM'YAHOVA, P.M.; GATLIOVA, A.S.; ZHERHEVA, T.A.

表表表表現的企業中的過程主義的表現的概念之前的知识是是特別的企業的表現的知识的主義的主要的主義的主義的主義的主義的主義的主義的主義的主義的主義的主義的主義的主義 第一章

Observations on the epidemiology of dysentery in Vladivostok. Zhur. mikrobiol: epid. i immin: 29 no.10:49-52 0 158. MIRA 11:12)

1. Iz Vladivostokskogo instituta epidemiologii, mikrobiologii i gigiyeny i gorodskoy sanitarno-epidemiologicheskoy stantsii.

(DYSENTERY, BACILIARY, epidemiology, in Russia (Rus))

DENISOV, P.I.; ZHERDEYEV, M.G.; KARAYEV, A.K.; KAYESHKOVA, S.M., ved.
red.; VOROBIYEVA, L.V., tekhn. red.

[Drilling in gas and gas-condensate fields] Burenie skvazhin na gazovykh i gazokondensatnykh mestorozhdenifakh; materialy vyezdnoi sessii postofannof Komissii po burenifu. Moskva, Gostoptekhizdat, 1962. 159 p. (MIRA 16:2)

1. Russia (1917- R.S.F.S.R.) Komissiya po bureniyu. 2. Krasnodarskiy sownarkhoz (for Karayev).

(Krasnodar Territory—Condensate oil wells)

(Krasnodar Territory—Gas wells)

USSR/Human and Animal Morphology - Normal and Pathological. Circulatory System.

Abs Jour

: Ref Zhur Biol., No 11, 1958, 50274

Author

: Zherdin, I.V.

Inst

: Gorki Medical Institute

Title

: Intramural Blood Vessels of the Stomach and Their Alterations in Peptic Ulcer

Orig Pub : Avtoref. dis. dokt. med. n., Gorikovsk. med. in-t,

Gorikiy, 1957

Abstract : No abstract.

Card 1/1

USSR/Pharmacology. Toxicology. Cholinergic Drugs Abs Jour : Ref Zhur-Biol., No 8, 1958, 47546 Author : Zherdin I. V., Korobkova K. P. Inst : Stalingrad Medical Institute : Application of Tropacine in Ulcers and Cholecys-Title titis. (Primeneniye tropatsina pri yazvennoy bolezni i kholetsistitakh). : Sb. nauchn. rabot teor. i klinich. kafedr Sta-Orig Pub lingr. med. in-ta, Stalingrad, 1956, 269-273 : Tropacine (1) was administered to 62 patients Abstract with ulcers and cholescistitis; 30 of these patients were administered the drug internally in doses of 15 to 25 mg 2 to 3 times daily, and 32subcutaneously in doses of 10 to 20 mg in 24 hours (1% solution). The therapeutic effect upon the application of 1 was similar to that of Card 1/2

USSR/Pharmacology. Toxicology. Cholinergic Drugs

Abs Jour : Ref Zhur-Biol., No 8, 1958, 47546

Abstract : atropine. No improvement was noted in 13 of the patients. Side effects (dryness in the mouth, reduced vision and others) were more apparent when 1 was taken internally. Greater tolerance by the patients for 1 as compared with atropine was noted.

Card 2/2

CIA-RDP86-00513R002064720001-9" APPROVED FOR RELEASE: 03/15/2001

ZHERDIN, I. V., Doc Med Sci -- (diss) "Intramural blood vessels of the stomach and their changes in ulcerstates." Gor-kiy, 1957. 24 pp (Gor'kiy State Med Inst im S. M. Kirov), 200 copies (KL, 2-58, 115)

-53-

ZHERDIN, I. V. Diathermy of the head in peptic ulcers, Klin, med. Moskva 28 no. 9166-70 Sept. 1950. (CLML 20:1) 1. Of the Faculty Therapeutic Clinic (Director -- Prof. A. K. Gefter), Gor'kiy Medical Institute imeni S. M. Kirov, Gor'kiy.

ZHERDIN, I.V.; SERGEYEVA, A.P.

Application of diathermy of pancreatic region in diabetes. Klin. med., Moskva 30 no. 11:86 Nov 1952. (CLML 23:5)

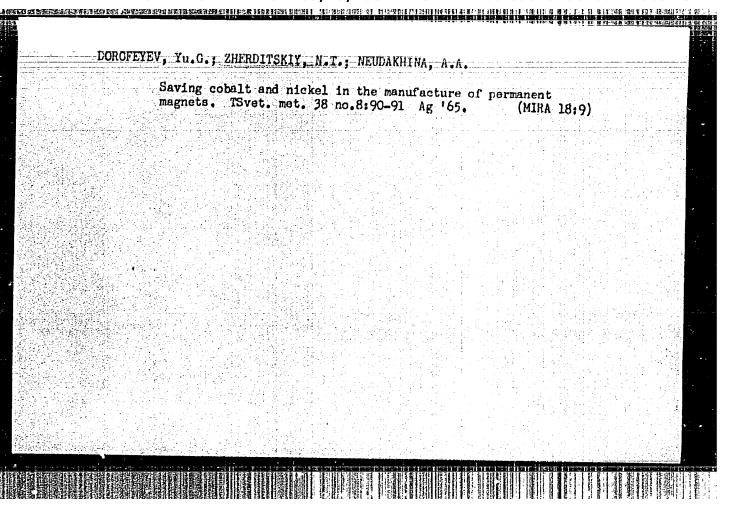
1. Docent for Zherdin. 2. Of the Faculty Therapeutic Clinic (Director -- Prof. A. I. Gefter) and of the Department of Pathological Physiology (Head -- Prof. Ya. A. Lazaris), Gor'kiy Medical Institute imeni S. M. Kirov.

| ZHE | RDIN, I.V., | dotsent. | | | · | | | |
|-----|--------------------------|---------------------|-------------|--------------------|---------------------|--------------------|-----------------------|------------|
| | | in infectious | | | | | (MIRA 6:5 |) |
| | 1. Kafedra S.M. Kirov | fakul'tetskoy a. | terapii Gor | 'kovskogo (Diat | meditain thermy) | skogo i (Liver- | nstituta -Diseases | imeni) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

CRIGORENKO, N.P., kand. med. nauk, otv. red.; LECNOV, A.N.,
zam. otv. red.; SPERANSKIY, V.S., dots. red.; ZHERDIN,
L.V., prof., red.; KARPOVA, L.P., dots., red.; PETROV,
K.M., zasl. vrach RSFSR, red.; KARPOVA, P.V., kand. med.
nauk, red.

[Papers on the anatomy of the circulatory system] Sbornik nauchnykh rabot po anatomii krovenosnoi sistemy. Volgograd, Nizhne-Volzhskoe knizhnoe izd-vo, 1964. 2 v.

(MIRA 18:12)
Oblastnogo onkologicheskogo dispansera Volgogradskogo
meditsinskogo instituta (for Petrov). 3. Kafedra normal'noy anatomii Volgogradskogo meditsinskogo instituta (for
Grigorenko, Speranskiy).



ACC NR. AR7004857 SOURCE CODE: UR/0137/66/000/010/G033/G033

AUTHOR: Dorofeyev, Yu. G.; Zherditskiy, N. T.

TITLE: Some problems of dynamic hot pressing of metal powders and chip

SOURCE: Ref. zh. Metallurgiya, Abs. 10G233

REF SOURCE: Sb. Ispol'z. metoda dinamich. metallokeram. v struzhk. i poroshk. metallurgii. Rostov-na-Donu, 1966, 93-103

TOPIC TAGS: hot pressing, iron powder, aluminum powder, cast iron, aluminum alloy, magnesium alloy

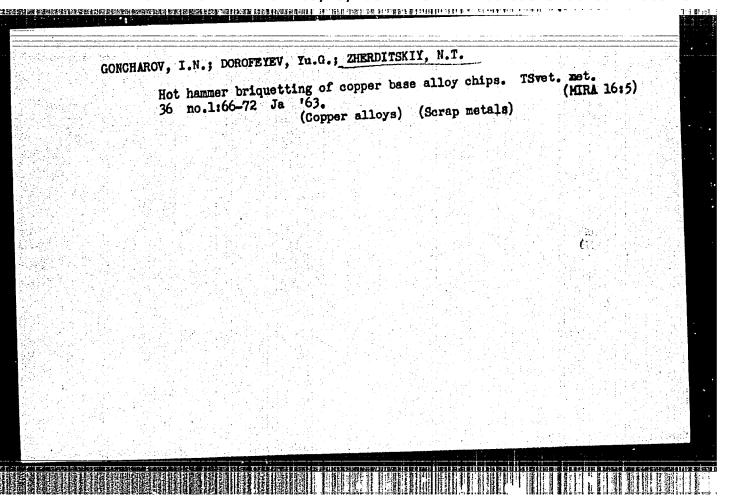
ABSTRACT: An investigation has been made of the process of dynamic hot pressing of Sulin iron powder, electrolytic copper powder (composition of Cu+4 vol % of Al₂O₃), aluminum powder cast-iron chip, aluminum and magnesium alloy, and of a purified concentrate by abrasive machining waste of cast permanent magnetos. A functional dependence of the density of briquettes on the compression, which is in good agreement with experimental data on continuous hot pressing of various materials. The dependence of density on compression at different temperatures is

Card 1/2

UDC: 621, 762, 4, 001

· 中国 1987年 中国 1987年 中国 1988年 中国 1988年

| studied. It is establi obtaining nonporous n 4 figures and bibliogr | naterials from meta aphy of 5 titles. A | powders and chip. (Epik. [Translation | Orig. art. has: | [NT] |
|---|--|---------------------------------------|-----------------|------|
| SUB CODE: 11/ | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 얼마가 하는 말로 가려면서 되자 나가게 가능된다. 보고하는 다 | | | | |
| 그는 스 플러지엄 이 선택하였다. 보다 그 전 100 대한 경험 중요를 보다 그 대한 화 대한 기를 받았다. | | | | |
| | | | | |
| | | | | |
| ard 2/2 | | | | |

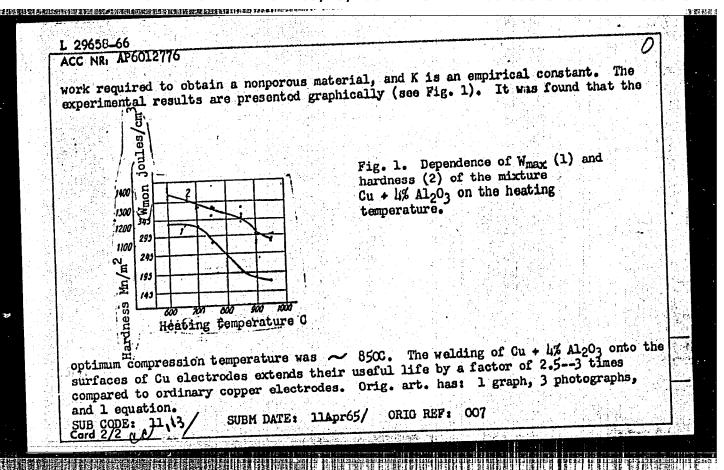


DOROFETEV, Yu.G.; ZHERDITSKIY, N.T.

Obtaining a nonporous material from cast iron chips by the method of dynamic hot pressing. Porosh. met. 5 no.10: 47-55 0 '65. (MIRA 18:11)

1. Novocherkasskiy politekhnicheskiy institut.

L 29658-66 EWP(k)/EWT(m)/T/EWP(e)/EWP(v)/EWP(t)/ETIACC NR: AP6012776 IJP(c) SOURCE CODE: UR/0226/66/000/004/0079/0084 AUTHORS: Dorofeyev, Yu. G.; Zharditskiy, N. T. ORG: Novocherkassk Polytechnic Institute (Novocherkasskiy politekhnicheskiy institut) TITLE: Welding of heat-resistant sintered copper base alloys and cast copper by the SOURCE: Poroshkovaya metallurgiya, no. 4, 1966, 79-84 TOPIC TAGS: copper base alloy, welding, powder metal, aluminum oxide ABSTRACT: The hot pressing of a mixture of Cu + 4% Al203 and its welding to the surface of cast copper were investigated. The investigation supplements earlier results of N. T. Zherditskiy and Yu. G. Dorofeyev (Sb. Metallokeramika v mashinostroyenii, NIIMASh, M., 1965). The density of the compressed powder specimens was determined by hydrostatic weighing and obeyed the relationship $\gamma = \gamma_{\text{pon}} \left(\frac{W}{W_{\text{max}}} \right)^{\kappa}$ mon are the densities of the specimen and bulk material respectively, W and W_{max} are the work of compression per 1 cm³ of bulk material and the maximum Card I/2 REPUT LINE TRANSPORTED BUILDING STREET

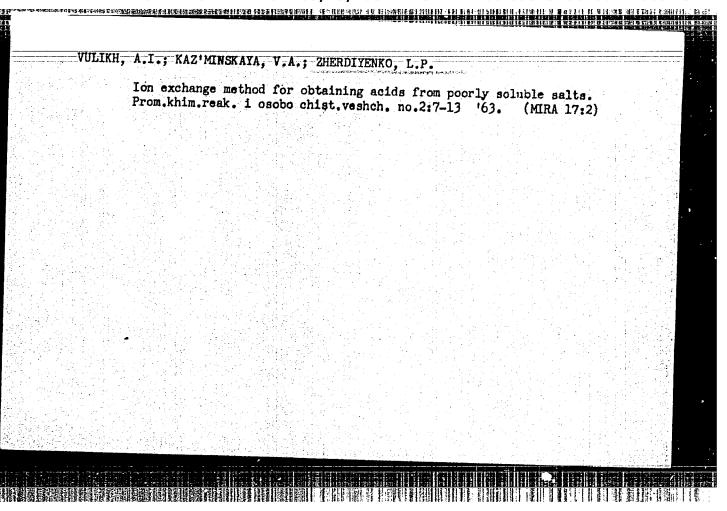


| suvoro |)v, v.T.; Z | HERDIY, N.I. | | | | <u></u> |
|--------|-------------|-------------------|------------|----------------------------|------|---------|
| | Behavior | of hybrid barley. | Trudy OGHI | no.18:91-98 (NIRA 13:5) | 159. | |
| | | (Ukraine-Barley | breeding) | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Spot | seeding of | mother | beets. | Sakh.prom. | 33 no.6:6 (MIR) | 2-63 Je | 159. | |
|-------|------------|-----------|-------------------|---------------|--------------------|---------|------|--|
| 1. Sv | eklosovkho | S - DOTO- | Ukrains bests) | kogo sakhkomi | binata. | | | |
| | | (pugar | 000081 | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | 1945 | | |

VULIKH, A.I. (Novosibirsk); KAZ'MINSKAYA, V.A. (Novosibirsk); ZHERDIYENKO, L.P. (Novosibirsk)

Chemical experiments with the use of ion exchangers. Khim. v shkole 18 no.5:57-65 S-0 '63. (MIRA 17:1)



VASIL'YEV, M.; GUSHCHEV, S.; HESMEYANOV, A.N., akademik; SHCHERBAKOV, D.I., akademik; ENGEL'GARDT, V.A.; akademik; ZHEREBAK, A.R., prof.; LIBBURY, S.A., akademik; ZENKEYICH, L.A.; GHADOT, A.S.; GOLDOVSKIY, M.G., prof.; STANYUKOVICH, K.P., prof.

Ahead with the dream Znan.sila 33 no.12:24-25 D '58.

(MIRA 11:12)

1. Chlen-korrespondent AN SSSR (for Zendevich). 2. Direktor Mauchnoiseledovatel'skogo instituta proyektirovaniya obshchestvennykh zdaniy i soorusheniy (for Gradov).

(Science)

"Changes in the Functions of the Central Mervous System in Experimental Hypothermis," published in the Proceedings of the Eighth ALL-Union Congress of Physiologists, Biochemists, and Pharmacologists, Moscow, 1955.

Abstract 1091961

ZHEREBCHENKO, P.G.

USSR/Human and Animal Physiology - Body Temperature Regulation. T-3

: Ref Zhur - Biol., No 10, 1958, 45848 Abs Jour

Zherebchenko, P.G. Author

AS UKrssR. Inst

Some Characteristics of the Central Nervous System Acti-Title

vity in Warmblooded Animals under Conditions of General

Chilling.

: Fiziol. zh. AN URSR, 1956, 2, No 2, 21-24. Orig Pub

Dogs were chilled by being wrapped in rubber "blanket" Abstract

equipped for water to flow through it. They were then subjected to stimulations by electric current which irritated the central terminal of their left vagus nerve, transected on the level of the lower edge of the thyroid cartilage. As the nerve vagus was stimulated in such

manner, the usual inhibitory effects of this nerve upon

Cord 1/2

CIA-RDP86-00513R002064720001-9" APPROVED FOR RELEASE: 03/15/2001

USSR/Human and Animal Physiology - Body Temperature Regulation. T-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, 45843

respiration were barely noticeable during the initial stages of chilling. When deeper coolong stages were reached, the inhibitory effect of the vagus nerve on the animals' respiration was not only restored, but was even stronger in many cases than before chilling. During the chilling period, the animal extremities were observed to display movements which coincided with the respiratory rhythm, as well as with the undulating fluctuations of blood pressure. Their highest anguitude (40-50 mm) was attained at a body temperature of 25-30° C. As the animals were warmed, the respiratory movements of their extremities and respiratory undulations of their blood pressure became much less pronounced. The author is of the opinion that these blood pressure changes are related to the variegated chilling and warming effects upon the radiation of respiratory impulses into the area of vasomotor centers. -- S.M. Shtevnberg.

Card 2/2

17 (10)

AUTHORS:

Zherebchenko, P. C., Krasnykh, I. C., Lebkova, T. P., Tarmonenko, S. P. SOV/20-129-6-63/69

and discharge and the contract of the contract

TITLE:

The Influence of Local Asphyxia of the Bone Karrow on the

Course and Result of the Radiation Disease

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 6, pp 1427 - 1429

(USSR)

ABSTRACT:

The transplantation of the bone marrow of a donor is difficult. Since the sensitivity of individual organs to radiation can be reduced by local asphyxia caused in these organs, the authors tied up the hind legs of test animals. If the lower third of the upper thigh is tied up, complete hemostasia and, consequently, hypoxia occurs in all lower parts, even in the bone marrow of the lower leg. 263 white rats and 503 white mice were investigated. They were exposed to total irradiation of 700, 750, and 800 r (intensity of doses: 49 and 32 r per minute, respectively). A round rubber band was used as a tourniquet which was applied before irradiation and taken off immediately after irradiation. The tourniquet proved to be favorable for the course and results of the radiation damage in all experiments (Table 1).

Card 1/3

The Influence of Local Asphyxia of the Bone Marrow on the SOV/20-129-6-63/69 Course and Result of the Radiation Disease

40-80% of the mice of the test groups were still alive on the twelfth day (doses: 700-750 r) whereas all control animals died on the 8th - 10th day. Only 10-50% of the mice were alive on the 30th day. The average life period of the test animals was considerably longer than that of the control mice. The results with rats were similar. The fact whether one or two legs had been tied up was not essential for the surviving of test animals. Novocaine was locally used in order to eliminate the effect of functional shifts due to the pain reaction in applying the tourniquet. The effect of asphyxia was not reduced by this. This effect was determined by counting the degeneratively changed nuclei and the mitotic index on total preparations of mice and the micronecrotic centers of rats (according to M. N. Meysel', Ref 18). Figure 1 shows that local asphyxia considerably decreases the degeneration of the cells of the irradiated bone marrow, and considerably increases their mitotic activity. Rats had about 65% of micronecrotic centers less than the control animals (3 hours after irradiation). Local asphyxia of the bone marrow had no considerable effect on the intensity of leucopenia. The lower degree of bone-marrow injury is probably due to the

Card 2/3

The Influence of Local Asphyxia of the Bone Marrow on the SOV/20-129-6-63/69 Course and Result of the Radiation Disease

reduced oxygen concentration. The effect of low metabolism has also to be taken into account. The effect determined combines with the protecting effect of mercamine. It can be maintained that the first effect will be increased by the complex of therapeutic methods used in the treatment of radiation diseases. Mercamine hydrochloride was synthesized by F. Yu. Rachinskiy. There are 1 figure, 1 table, and 19 references, 8 of which are Soviet.

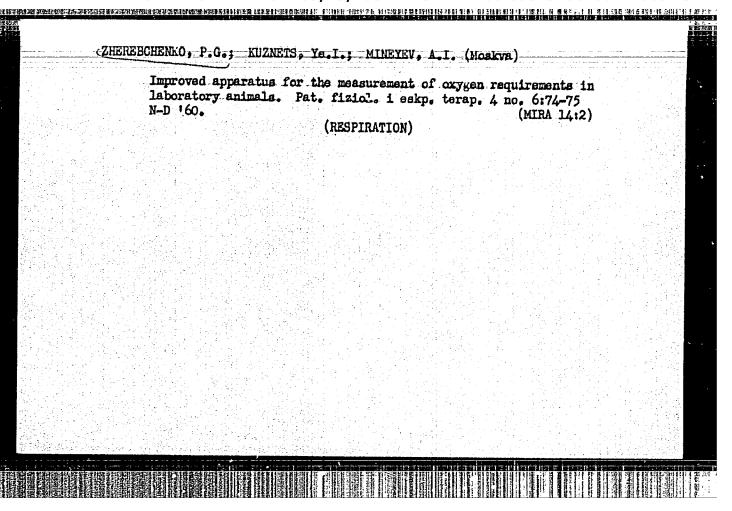
PRESENTED:

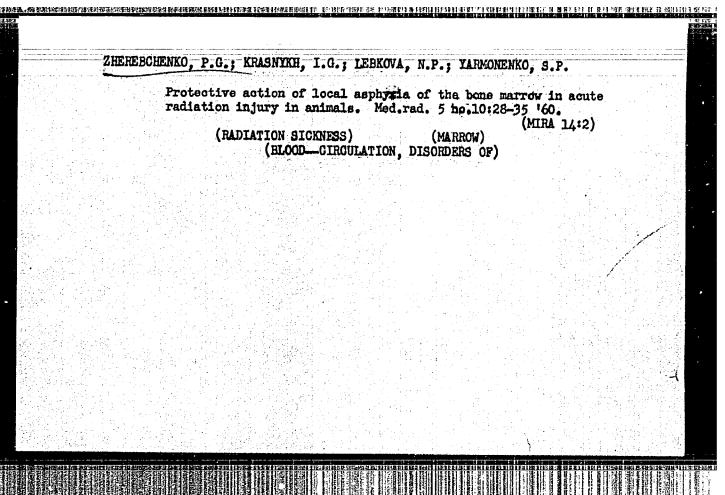
July 5, 1959, by I. L. Knunyants, Academician

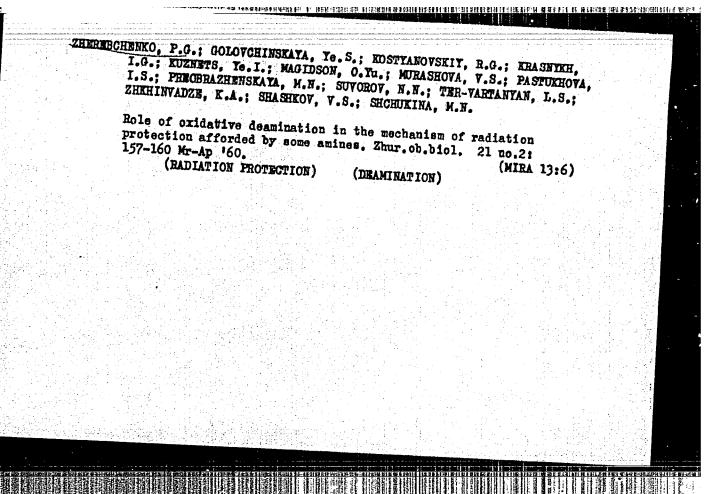
SUBMITTED:

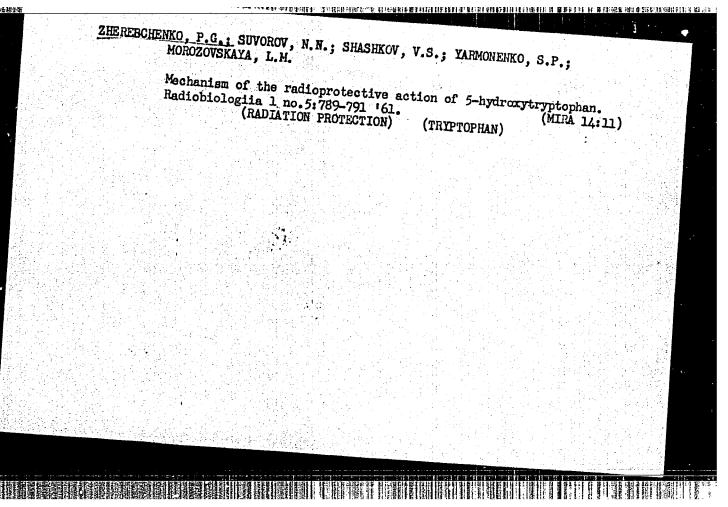
July 5, 1959

Card 3/3





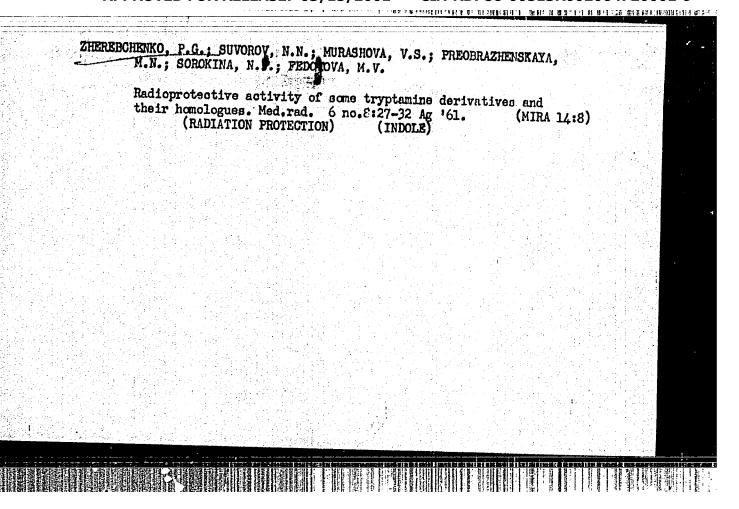


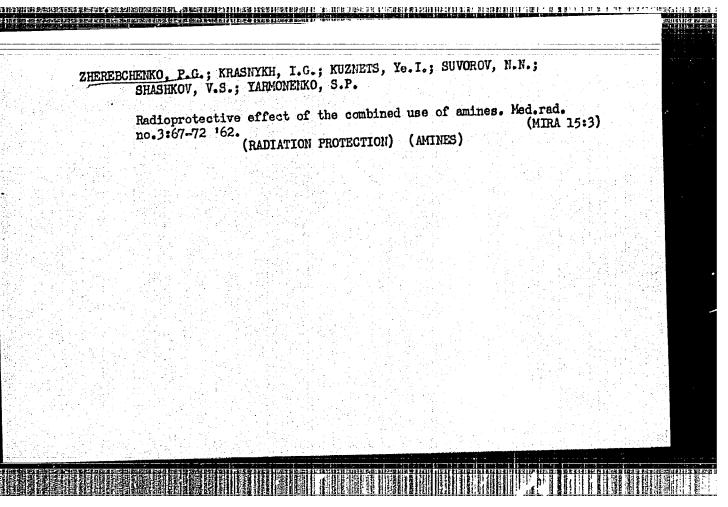


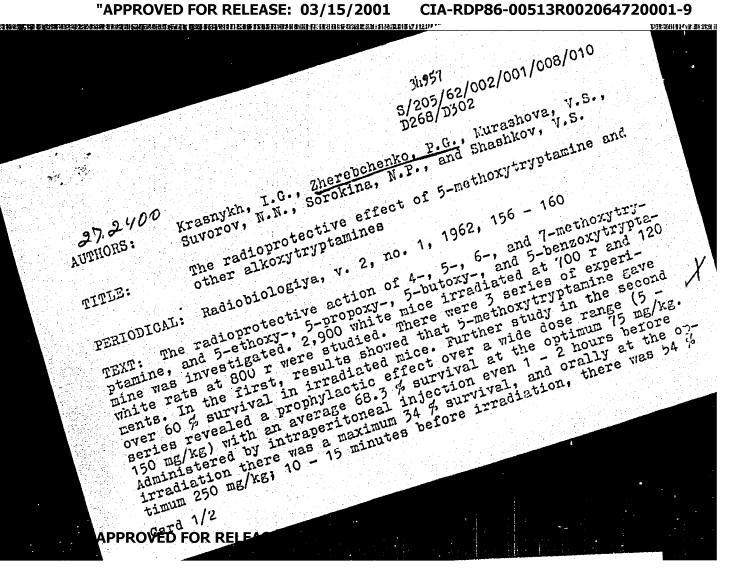
| ANAIIA | | G., KRASNYKH, I.O | | | | | |
|--------|------------------|---|------------------------------|-------------|-----------|--------|--|
| | Role of mechani | hypothermia produ sm of radioprotect | ced with certain | in substanc | es in the | _ | |
| | ¹ 61. | | National for the factor | | (MTRA | 14:12) | |
| | | (HYPOTHERMIA) (RESERPINE—PHYSI | (RADIATION OLOGICAL REFER | PROTECTION | | | |
| | | (PYRROL—PHYSIOLO | GICAL EFFECT) | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-

CIA-RDP86-00513R002064720001-9







S/205/62/002/U01/0U8/010 D268/D302

The radioprotective effect of ...

survival, whereas serotonin was ineffective. Subcutaneous injection gave the same protection as intraperitoneal. In the third series of experiments on rats irradiated at 800 r survival was 50 - 63 %. Orexperiments on rats irradiated at 800 r survival was 50 - 63 %. Oreal administration also gave protection. The experimental data showed the relationship between the chemical structure of some alkoxyed the relationship between the chemical structure of some alkoxyed tryptamines and radioprotection. Structural changes in tryptamine, tryptamines and radioprotection, increase occurdole ring increased or decreased radioprotection, increase occurdole ring increased or decreased radioprotection, increase occurdon. 5-methoxytryptamine gave protection comparable to that of tion. 5-methoxytryptamine gave protection comparable to that of serotonin. Its effectiveness may be due to more selective penetration of radiosensitive tissue. There are 4 figures and 11 referention of radiosensitive tissue. There are 4 figures and 11 references: 5 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references: 5 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: P.J.H. ences to the English-language publications read as follows: P.J.H. wang, J.G. Kereiakes, Radiation Res., 11, 2, 476, 1959; Z.M. Bacq, P. Alexander, and others, Experientia, 15, 5, 175, 1959; Z.M. Bacq, P. Alexander, Fundamentals of radiobiology, London, 1955; Z.M. Bacq, Acta radio1.

SUBMITTED: August 29, 1961 Card 2/2

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002064720001-9"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720001-9

40477 S/205/62/002/002/010/015 1020/1215

27 2400

AUTHORS:

Na 2220

Krasnykh, I. G., Zherebchenko, P. G., Murashova, V. S., Suvorov, N. N. and Sorokina,

N. P.

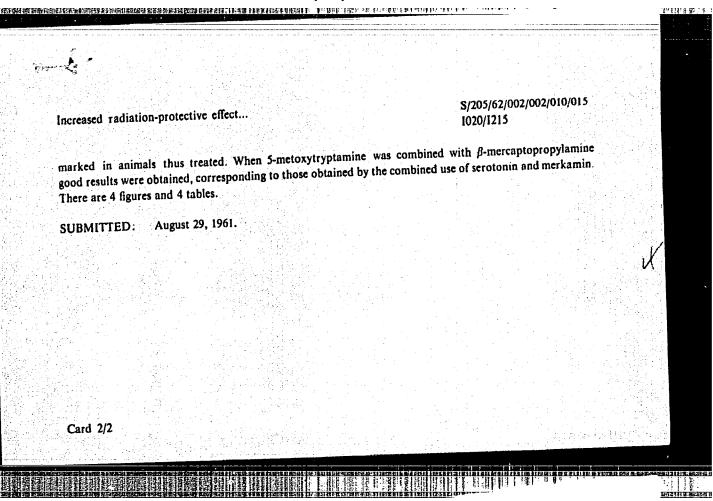
Increased radiation-protective effect of the combined administration of 5-metoxytrypta-TITLE:

mine and merkamine

Radiobiologiya, v. 2, no. 2, 1962, 298-303

TEXT: This is the continuation of a previous study. White mice weighing 18-22 g were irradiated with 700 (LD 95/30), 800, 900, and 1000 r. White rats weighing 150-200 g received 800 r (LD 90/30). One group of animals received 75 mg/kg 5-metoxytryptamine, a second group — 150 mg/kg merkamine, a third received both drugs in the same dosage, and a fourth—no medication. Survival, body weight, amount of leucocyte in the peripheral blood, early degenerative changes in the bone marrow and spleen cells, and the weight of the spleen, thymus, and liver were considered. The combined administration of both drugs resulted in a summation of the radiation-protective effect. The survival was greater, the radiation sickness was milder, and recovery occurred earlier. Treatment of mice irradiated with 1000 r resulted in a 27.5% survival. Degenerative changes in the bone marrow and spleen cells, as well as a decrease in the weight of spleen and thymus, were less

Card 1/2



416 8

s/205/62/002/005/017/017 D243/D307

27 1100 27 2420

AUTHOR:

Distribution in the organs of mice of indolyl-alkyla-Zherebchenko, P.G. mines with different radioprotective properties

TITLE:

Radiobiologiya, v. 2, no. 5, 1962, 780 - 784

The object of the work was to discover to what extent the differences in antiradiation activity of a substance are associated with the distribution of that substance in animals. The content of tryptamines with different radioprotective properties was studied in mouse organs after intraabdominal introduction of several tryptamine derivatives and homologs. Groups of four male white mice, 18 - 22 g in weight were simultaneously given a consider door of the amine derivatives and nomotogs. Groups of four mate white mice, to 22 g in weight, were simultaneously given a 90 mg/kg dose of 5-methyltryptamine, 5-methoxytryptamine, 7-3-indolyl-propylamine, 6-3indolyl-butylamine, or 6-methoxytryptamine, After 15, 30, 60, 120 indolylbutylamine, or 6-methoxytryptamine. After 15, 30, 60, 120 and 180 minutes the animals were beheaded, the internal organs were removed and sectioned, and the animals were extracted with 1 % HCl removed and secutioned, and the animals were extracted with hold of S. Udenfriend, H. Weissbach and B.B. Brodie (Methods of Biochemical Analyses, 6, 95, 1958). The amount of color Card 1/2

S/205/62/002/005/017/017 D243/D307

Distribution in the organs of ...

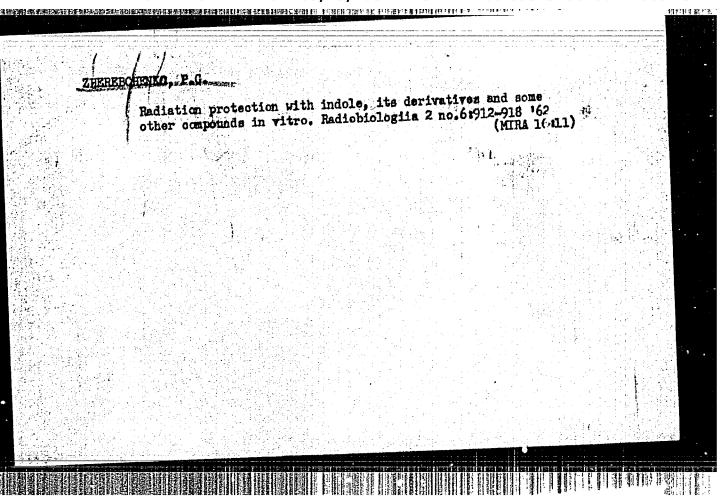
produced by adding Erhlich's reagent to an acid solution of the amines was measured photoelectrically, the amount of amine being calculated from a calibrated curve. Controls gave no color. 5-methyltryptamine and 5-methoxytryptamine had a similar distribution, with a high concentration in liver, spleen, lungs and kidneys, much less in muscles, mucous membrane of the small intestine, and testicles, and were practically absent in the brain. Maximum concentration was usually reached in 15 minutes but considerable amounts were detected after 3 hours. The kidneys had, at all times, the greatest concentration. The compounds γ -3-indolylpropylamine and δ -3-indolylbutylamine also reached maximum (but lower) concentration, in 15 minutes. The concentration declined progressively with time, remaining nigh only in the kidneys and in the blood plasma. 6-methoxytryptamine reached the same levels as 5-methoxytryptamine after 15 -30 minutes, but it fell more rapidly in the spleen. The experiments were repeated with 50 mg/kg doses. It was shown that previous introduction in mice of α -methyltryptamine alters the distribution of 5-methoxytryptamine in the internal organs. There are 5 tables.

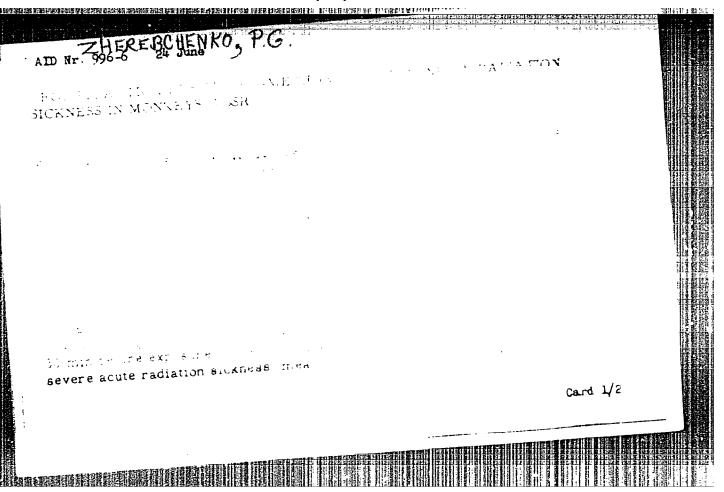
SUBMITTED: December

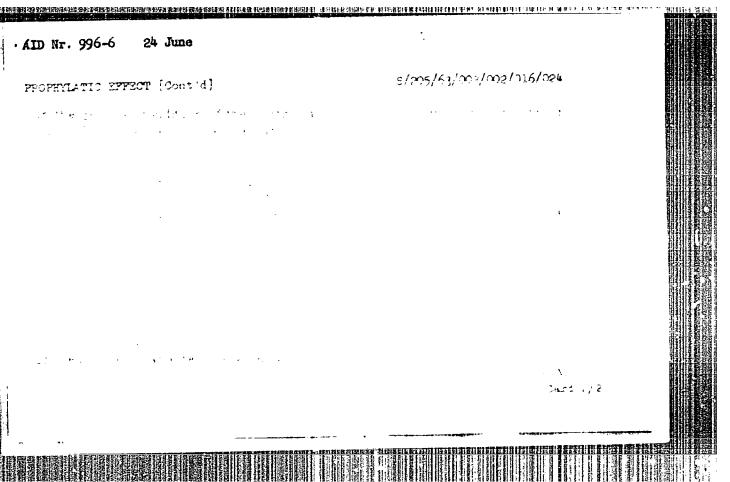
December 27, 1961

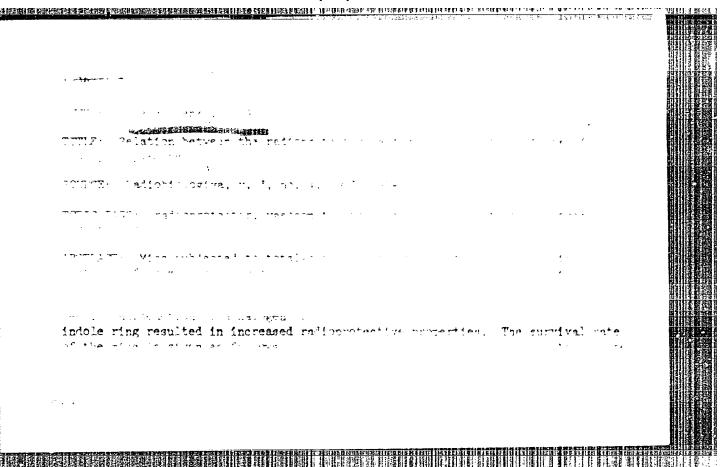
Card 2/2

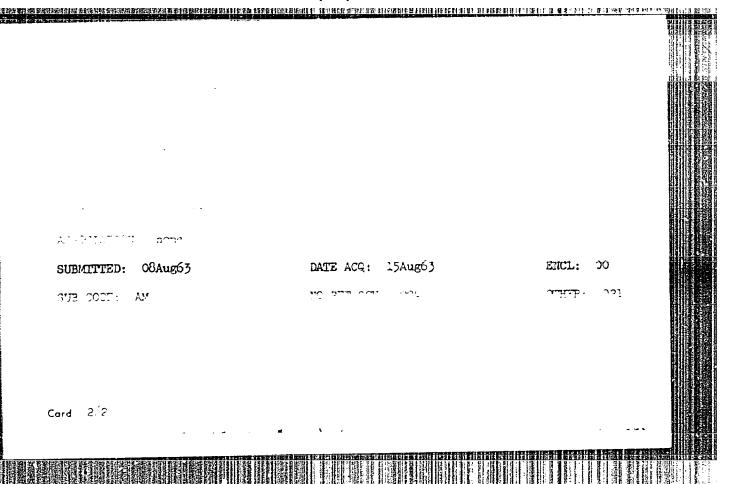
APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002064720001-9"

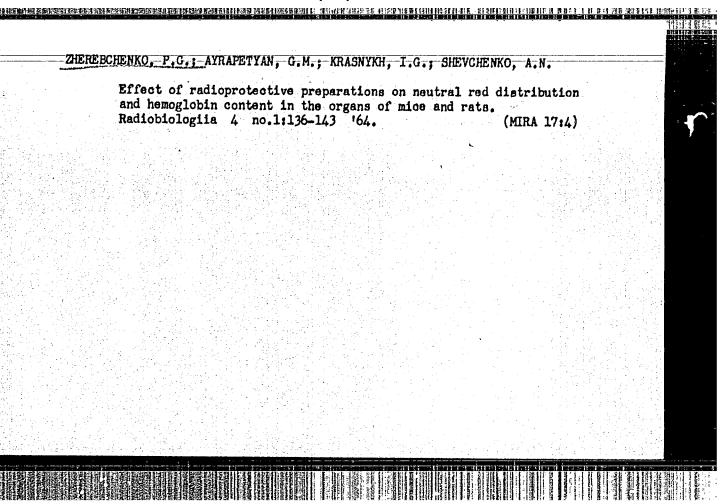












ACCESSION NR: AP4027966

8/0205/64/004/002/0197/0202

AUTHOR: Grayevskiy, E. Ya.; Zherebchenko, P. G.; Konstantinova, M. M.; Sokolova, O. M.; Shevchenko, A. N.

TITLE: Relation of radioprotective activity of indolylalkylamines to tissue hypoxia and the role of vascular changes in its development

SOURCE: Radiobiologiya, v. 4, no. 2, 1964, 197-202

TOPIC TAGS: radioprotective action mechanism, indolylalkylamine radioprotective action, tissue hypoxia, vessel spasm, tryptomine derivative, radioprotective preparation, 4-,5-chlortryptamine, 4-,5-metoxytryptamine, serotonine, alpha-methyltryptamine, LSD, cystamine, oxygen intensity, cystamine radioprotective action

ABSTRACT: Literature studies have established that indolylalkylamine radioprotective action is related to tissue hypoxia. This work investigates the mechanism of this action by determining 1) whether the position of a substitute in a tryptamine molecule affects its capacity to produce tissue hypoxia, 2) how the introduction of alpha-methyltryptamine and LSD affects the hypoxic and vasoconstrictive

Card 1/3.

ACCESSION NR: AP4027966

action of the preparations, and 3) how the combined use of 5-metoxytryptamine and cystamine affectsoxygen level and vessel reaction in tissues. The following preparations were administered intraperitoneally to experimental white mice: 4-chlortryptamine (60 mg/kg), 5-chlortryptamine (60 mg/kg), 4-metoxytryptamine (60 mg/kg), and serotonine (50 mg/kg) 1 hr after administering alpha-methyltryptamine, cystamine (150 mg/kg) combined with metoxytryptamine (50 mg/kg), and LSD (10 mg/kg) combined with serotonine. Oxygen intensity in the liver and spleen of the animals was measured by a polarographic method. Vessel tone was determined by the accumulation of neutral red in the organs 30 min after being introduced (65 mg/kg in a 0.5 ml physiological solution). Findings show that tryptamine derivatives with substitutes in the fifth position (5-metoxy-, 5-chlortryptamine) are highly effective radioprotectors because of their capacity to produce hypoxia in radiosensitive organs by vessel spasms. Tryptamine derivatives with substitutes in the fourth position (4-chlor-, 4-metoxytryptamine) do not produce hypoxia or vessel spasms and are ineffective radioprotectors. Alpha-methyltryptamine and LSD remove the radioprotective effect of indolylalkylamines by preventing the development of vessel spasm and subsequent tissue hypoxia. Cystamine enhances the Cord 2/3

| radioprotective notion | of tryptamine derivatives, bustrict vessels and to devolop to mechanisms of cystamine and offer. Orig. art. has: 4 figur | ypoxia. The | |
|------------------------|--|-------------|--|
| ASSOCIATION: None | | | |
| SUBMITTED:. 06Apr63 | DATE ACQ: 28Apr64 | ENCL: 00 | |
| SUB CODE: AM | NO REF SOV: 013 | OTHER: 008 | |
| | | | |
| | | | |
| | | | |
| | | | |
| Card 3/3 | | | |

ACCESSION NR: AP4027973

8/0205/64/004/002/0239/0243

AUTHOR: Zherebchenko, P. G.; Krasnyskh, I. G.

TITLE: Role of oxidizing desamination in the radioprotective action mechanism of indolylalkylamines

SOURC3: Radiobiologiya, v. 4, no. 2, 1964, 239-243

TOPIC TAGS: oxidizing desamination, indolylalkylamine, radioprotective action mechanism, monoaminoxidase activity inhibitor, alpha-methyltryptamine, iproniazid, phenylisopropylhydrazine, 5-methoxytryptamine, peripheral blood circulation, vascoconstriction, hematoencophalitic barrier permeability, hemoglobin level, liver blood supply, brain blood supply, spleen blood supply

ABSTRACT: Literature studies have indicated that inhibitors of monoaminoxidase (MAO) activity affect the radioprotective action of indolalkylamines by changing their capacity to disturb peripheral blood circulation and blood distribution to bloodforming organs. Literature studies have also indicated that the exidizing desamination process is significant in the radioprotective activity of indol group amines. The present study investigates the effects of certain MAO Cord 1/3

ACCESSION NR: AP4027973

inhibitors, varying in brain permeability, on the radioprotective properties of 5-methoxytryptamine. In the first of two experimental groups of white mice, neutral red was introduced intravenously and at the same time 5-methoxytryptamine was administered intraperitoneally. In the second group of experimental animals, one of three MAO inhibitors (alpha-methyltryptamine, iproniazid, and phenylisopropylhydrazine) was administered before introducing the neutral red and 5-methoxytryptamine. In the control group, neutral red and a physiological solution (0.2 ml) were introduced. Animals were killed 30 min later to find neutral red distribution in the blood and organs and determine the hemoglobin levels. Findings show that 5-mothoxytryptamine by itself reduces significantly the hemoglobin levels of the spleen and skin and increases the levels in the brain, lungs, muscles, liver and kidneys. Preliminary administration of alpha-methyltryptamine prevents the hemoglobin level changes in the organs produced by 5-methoxytryptamine. Alpha-methyltryptamine reduces the radioprotective action of 5-methoxytryptamine the most, phenylisopropylhydrazine reduces it somewhat less and iproniazid, which penetrates the brain poorly compared to the other two inhibitors, reduces it least. The dependence of MAO inhibitor properties on hematoencephalitic barrier permeability indicates central nervous system participation in these

| ACCESSION N | R: AP40279 | 73 | | | | | |
|-------------|----------------------------|---|--------------|------------|--|-----------|--|
| to weaken v | ascular rea tive activi | ons. The cape otions correle ty of the inde les. | ates well wi | th their e | ffection | the | |
| ASSOCIATION | None | | | | | | |
| SUBMITTED: | 17Jan63 | | | | ENCL: | 00 | |
| SUB CODE: | B | nr ref so | V: 008 | | OTHER: | 008 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Cord 3/3 | | | | | Artina de la colonia de la Artina de la colonia de la | و المونيد | |

ACCESSION NR: APLO27977

s/0205/64/004/002/0259/0265

AUTHOR: Ayrapetyan, G. M.; Zherebchenko, P. G.

THE PARTY OF THE P

TITLE: Certain characteristics of radioprotective properties of beta-aminoethylthiophosphoric acid monoscdium salt

SOURCE: Radiobiologiya, v. 4, no. 2, 1964, 259-265

TOPIC TAGS: beta-aminoethylthiophosphoric acid monosodium salt, radioprotective action, mercapto group, cystamine, mercamine, X-irradiation, gamma-irradiation, oral administration, subcutaneous administration, intramuscular administration, combined radioprotective effect, 5-metoxytryptamine

ABSTRACT: This study investigates only those characteristics of beta-aminoethylthiophosphoric acid monosodium salt which can be compared with the characteristics of other mercaptoamines. White mice, white rats, and dogs were used to test the efficacy of this preparation administered orally, subcutaneously, intramuscularly, and intraperitoneally at different times before irradiation. Mice and rats were 'X-irradiated (RUM-3 unit, 180 ky, 15 ma, focal length

Cord1/3

ACCESSION NR: API4027977

35 cm) with single 700-900-r doses, and dogs were gamma-irradiated (EGO-2 unit, 260-280 r/min) with single 300 r-doses. Preparation efficacy was determined by survival of rats and mice at the end of 30 days and of dogs at the end of 45 days. Additional experiments were conducted to determine the combined radioprotective effect of beta-aminoethylthiophosphoric acid monosodium salt and 5-motoxytryptamine administered to mice in a 900-r dose at different time sequences before irradiation. Results show that beta-aminoethylthiophosphoric acid monosodium salt is an effective radioprotective administered orally, subcutaneously, intramuscularly, or intraperitoneally. Also, in the case of subcutaneous and intramuscular use, it does not cause inflammatory and necrotic reactions, as cystamine and AET do. It is superior to cystamine in radioprotective action when administered orally, and it is twice as effective as the mercapto groups when administered in doses of the same quantity. In combination with 5-metoxytryptamine, its radioprotective action is most effective when it is administered first. "The authors express their sincere gratitude to Academician I. L. Knunyanets, Doctor of Chemical Sciences, O. V. Kil'dy*sheva, Candidate of Chemical Sciences, M Q. Lin'kova, and also to Z. V. Benevolenskaya for the preparations. Orig. art has: 6 tables. Cord 2/3

| ACCESSION NR: AP4027977 ASSOCIATION: None SUBMITTED: 11Mar63 DATE ACQ: 28Apr64 ENCL: SUB CODE: AM NO REF SOV: 006 OTHER: | 00 | |
|--|-----|---|
| ASSOCIATION: None SUBMITTED: 11Mar63 DATE ACQ: 28Apr64 ENCL: | | |
| SUBMITTED: 11Mar63 DATE ACQ: 28Apr64 ENCL: | | |
| SITE CODE. | | |
| SUB CODE: AM NO REF SOV: 006 OTHER: | 010 | |
| | | |
| | | |
| "解我"的一点,我就是这一点,她就是这些话,"我没有好好的。""我们的我们,我们的一个人的,这个人的一个人的。""我们的一个人,我们的一个人,我们的一个人,就是 | | |
| 역 하는 경에 하는 이 등로 가능하게 하는 것이라고 있었다. 그를 잃고 하는 사람들은 그들은 그는 것이다. 그는 사람들은 복하는 보다는 것을 하는 것 같아 하는 것을 하는 것을 받았다면 하는 것을 하는 것이다. 그는 것이 하는 것을 했습니다. | | : |
| 가 하고 있는 것이 되었다. 이 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 | | • |
| 기계 기본 사용하는 경우를 가격 통해가는 생각 중에 수를 가고 하는 등록 제한 시간을 보고 있다. 경우 사용하는 경우 사용하는 사용하는 경우 기본 | | |
| Card 3/3 | | |
| | | |